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1 [Communications of the ACM: Volume 51 Issue 11](#)

 November 2008 [Communications of the ACM](#)
Publisher: ACM

 Full text available: [Digital Edition](#), [Pdf \(8.26 MB\)](#) [Additional Information: full citation](#)
Bibliometrics: Downloads (6 Weeks): 463, Downloads (12 Months): 3248, [Downl](#)
2 [Proceedings of the 2000 ACM/IEEE conference on Supercomputing](#)
[Jed Donnelley](#)

 November 2000 **Supercomputing '00:** Proceedings of the 2000 ACM/IEEE

Publisher: IEEE Computer Society

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3 [Replication for web hosting systems](#)
[Swaminathan Sivasubramanian](#), [Michal Szymaniak](#), [Guillaume Pierre](#), [Maar](#)
September 2004 **Computing Surveys (CSUR)**, Volume 36 Issue 3

Publisher: ACM [Request Permissions](#)

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Replication is a well-known technique to improve the accessibility of Web
latencies and increases a site's availability. However, applying replication
Delivery Networks ...

Keywords: Web replication, content delivery networks

4 [Power minimization in IC design: principles and applications](#)
[Massoud Pedram](#)

 January 1996 **Transactions on Design Automation of Electronic Systems**
Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf \(550.02 KB\)](#) [Additional Information: full citation](#), [abs](#)
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Low power has emerged as a principal theme in today's electronics industry.
major paradigm shift in which power dissipation is as important as performance.
depth survey of CAD methodologies ...

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Keywords: CMOS circuits, adiabatic circuits, computer-aided design of product, gated clocks, layout, low power layout, low power synthesis, lo estimation, power management, power minimization and management, technology, statistical sampling, switched capacitance, switching activity

5 [The costs and limits of availability for replicated services](#)

 [Haifeng Yu, Amin Vahdat](#)

February 2006 **Transactions on Computer Systems (TOCS)** , Volume 24 Is

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (718.65 KB)


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Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 156, Downl

As raw system performance continues to improve at exponential rates, limited by availability rather than performance. A key approach to imprc across multiple, ...

Keywords: Availability, continuous consistency, network services, repli

6 [ACM SIGMOBILE Mobile Computing and Communications Review:](#)


 October 2005 SIGMOBILE Mobile Computing and Communications Review

Publisher: ACM

Additional Information: [full citation](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downl

7 [A study of end-to-end web access failures](#)

 [Venkata N. Padmanabhan, Sriram Ramabhadran, Sharad Agarwal, Jitendra](#)

December 2006 **CoNEXT '06: Proceedings of the 2006 ACM CoNEXT confer**

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We present a study of end-to-end web access failures in the Internet. P directly observable end-to-end information. We also present novel analy that would ...


Keywords: BGP, DNS, HTTP, TCP, web access, web failure

8 [Kinesis: A new approach to replica placement in distributed storage :](#)

 [John MacCormick, Nicholas Murphy, Venugopalan Ramasubramanian, Udi V](#)

January 2009 **Transactions on Storage (TOS)** , Volume 4 Issue 4

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (364.79 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 227, Downl

Kinesis is a novel data placement model for distributed storage systems *structure* (division of servers into a few failure-isolated segments), *free* servers ...

Keywords: Storage system, load balancing, multiple-choice paradigm

- 9 [Separating agreement from execution for byzantine fault tolerant ser](#)
 Jian Yin, Jean-Philippe Martin, Arun Venkataramani, Lorenzo Alvisi, Mike D
 December 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (355.08 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 109, Downl

We describe a new architecture for Byzantine fault tolerant state machir
 orders requests from *execution* that processes requests. This separator
 significant ...

Keywords: byzantine fault tolerance, confidentiality, reliability, security

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

- 10 [Adaptive quality of service management for enterprise services](#)
 Daniel Gmach, Stefan Krompass, Andreas Scholz, Martin Wimmer, Alfons K
 February 2008 **Transactions on the Web (TWEB)** , Volume 2 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (2.31 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 57, Downloads (12 Months): 493, Downl

In the past, enterprise resource planning systems were designed as mo
 mainframes. Today, these systems are (re-)designed as a repository of
 throughout the available ...

Keywords: Quality of service, fuzzy controller, workload characterizati

- 11 [A survey of data replication techniques for mobile ad hoc network da](#)
 Prasanna Padmanabhan, Le Gruenwald, Anita Vallur, Mohammed Atiquzzar
 August 2008 **The VLDB Journal — The International Journal on Very**
Publisher: Springer-Verlag New York, Inc.


Full text available:  Pdf (286.87 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 477, Downl

A mobile ad hoc network (MANET) is a network that allows mobile serve
 a fixed infrastructure. MANET is a fast growing area of research as it fin
 facilitate ...

Keywords: Data replication, Mobile ad hoc network databases, Mobile

- 12 [An analysis of unreliability and asymmetry in low-power wireless link](#)
 Marco Zúñiga Zamalloa, Bhaskar Krishnamachari

June 2007 **Transactions on Sensor Networks (TOSN)**, Volume 3 Issue 2

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (609.93 KB)


Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 171, Downl

Experimental studies have demonstrated that the behavior of real links (wireless sensor networks) deviates to a large extent from the ideal bina particular, there is ...


Keywords: Wireless link, communication theory, hardware variance, pr

13 [Session scribe notes for Twenty-First ACM Symposium on Operating](#)

 Thomas C. Bressoud

April 2008 **SI GOPS Operating Systems Review**, Volume 42 Issue 3

Publisher: ACM

Full text available:  Pdf (1.45 MB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 50, Downloa

The following article is divided into nine sections, one for each of the se session, two student volunteers took notes at the conference, capturing the papers presented ...

14 [Graph annotations in modeling complex network topologies](#)

 Xenofontas Dimitropoulos, Dmitri Krioukov, Amin Vahdat, George Riley

October 2009 **Transactions on Modeling and Computer Simulation (T**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (915.47 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 37, Downlo

The coarsest approximation of the structure of a complex network, such unweighted graph. This approximation, however, loses too much detail. edges in such a graph ...

Keywords: AS relationships, Annotations, complex networks, topology

15 [Replica placement for high availability in distributed stream processin](#)

 Thomas Repantis, Vana Kalogeraki

July 2008 **DEBS '08: Proceedings of the second international conferenc**

Publisher: ACM

Full text available:  Pdf (525.57 KB)

Additional Information: [full citation](#), [abs](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 202, Downl

A significant number of emerging on-line data analysis applications requ amounts of data that get updated continuously, to generate outputs of i Example domains include ...



Keywords: distributed stream processing, high availability, replica plac

- 16** [SmartStore: a new metadata organization paradigm with semantic-a](#)
 Yu Hua, Hong Jiang, Yifeng Zhu, Dan Feng, Lei Tian
 November 2009 **SC '09: Proceedings of the Conference on High Performanc**
Publisher: ACM  [Request Permissions](#)
 Full text available:  [Pdf](#) (443.59 KB) Additional Information: [full citation](#), [abs](#)
Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 1, Download

Existing storage systems using hierarchical directory tree do not meet s
 exponentially growing datasets and increasingly complex queries in Exa
 paper proposes ...




- 17** [Adaptive data placement for wide-area sensing services](#)
 Suman Nath, Phillip B. Gibbons, Srinivasan Seshan
 December 2005 **FAST'05: Proceedings of the 4th conference on USENIX**
Technologies - Volume 4 , Volume 4
Publisher: USENIX Association
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downl

Wide-area sensing services enable users to query data collected from m
 paper, we consider the novel distributed database workload characterist
 online, adaptive ...

- 18** [GlobeDB: autonomic data replication for web applications](#)
 Swaminathan Sivasubramanian, Gustavo Alonso, Guillaume Pierre, Maarte
 May 2005 **WWW '05: Proceedings of the 14th international conference**
Publisher: ACM
 Full text available:  [Pdf](#) (263.97 KB) Additional Information: [full citation](#), [abs](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 71, Downloa


We present GlobeDB, a system for hosting Web applications that perfor
 GlobeDB offers data-intensive Web applications the benefits of low acce
 major distinction in ...

Keywords: autonomic replication, data replication, edge services, perfo

- 19** [Optimal inter-object correlation when replicating for availability](#)
 Haifeng Yu, Phillip B. Gibbons
 August 2007 **PODC '07: Proceedings of the twenty-sixth annual ACM sym**
Publisher: ACM  [Request Permissions](#)
 Full text available:  [Pdf](#) (262.41 KB) Additional Information: [full citation](#), [abs](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 32, Downloa

Data replication is a key technique for ensuring data availability. Traditi
 availability of individual objects, even though user-level tasks (called *op*
 recent ...

Keywords: availability, data replication, inter-object correlation, multi-

20 [Using redundancy to cope with failures in a delay tolerant network](#) [Sushant Jain, Michael Demmer, Rabin Patra, Kevin Fall](#)August 2005 **SIGCOMM '05: Proceedings of the 2005 conference on Application protocols for computer communications****Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf \(328.27 KB\)](#)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 169, Downloads (Overall): 1,000

We consider the problem of routing in a delay tolerant network (DTN) in which DTN routing has focused on using precisely known network dynamics, with respect to link failures, ...

Keywords: delay tolerant network, routing

Also published in:

October 2005 **SIGCOMM Computer Communication Review** Volume 35 Issue 4

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